

9 August 2005:

## Student Positions at BNL

We are looking for 4 or more students to help set up an electromagnetic calorimeter at the STAR experiment (<http://www.star.bnl.gov>) at Brookhaven National Lab (BNL) on Long Island. Students will work in two-person teams to prepare components of the detector. Each team will work two 5-hour shifts per week, including commuting time to BNL. Scheduling is flexible to accommodate class activities. The calorimeter will be used to investigate parton distributions (quarks and gluons) in protons and in Au nuclei, specifically to investigate the low-x region where new saturation phenomena are expected (<http://arxiv.org/abs/hep-ex/0502040>). The tasks include an introduction to the kinematics of 2-parton collisions from which we unfold the parton distribution functions, and an introduction to electromagnetic calorimeters. The students will work at BNL with senior physicists and other students on set up and testing of the 1500 lead-glass calorimeter cells. Requirements for these positions include 3<sup>rd</sup> or 4<sup>th</sup> year or grad student status for the FY06 academic year. Prefer physics or engineering students having some familiarity with unix/linux OS, oscilloscopes and general electronics test equipment. For more information about the project see (<http://hena.lbl.gov/FMS>).

If you are interested, please contact Les Bland ([bland@bnl.gov](mailto:bland@bnl.gov)) 631-344-3404 or Hank Crawford ([hjcrawford@lbl.gov](mailto:hjcrawford@lbl.gov)) 510-486-6962 LBL or 631-344-4942 BNL